BRUHAT BANAGLORE MAHANAGARA PALIKE

Excecutive Engineer Yelahanka Division

DETAILED ESTIMATE

Name of Work: Impovements of roads and Drains In Chowdeshwari layout AD Colony And Sorrounding Area in Ward No 02 Yelahanka Sub Division.

Estimate Amount : 5000000.00

Sl. No.	Description of Item	Unit / Rate	Nos	Dimensions			Quantity	Rate in Rs.	Total Amount in Rs
				L in m	B in m	D in m			
	DRAIN WORKS								
1	Removing and Refixing Stone Slabs of drains and Pointing in C.M(1:3)								
		Sqm							
	(Page No 27., I.No.5.33 of KPWD S.R 2018-19).								
	Rate Analysis								
	Basic Rate in Rs.			105.00					
	Add 6% Area Weightage			6.30					
	Total Rate in Rs.			111.30					
	For Cover Slab								
	for drain cover slab								
	Chowdeshwari Layout								
	0-250	rhs	1	250.00	0.90		225.00		
	30% deduction for missing bits						-67.50		
							157.50	**111.30**	**17529.75**
2	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3								
		Cum							
	(Page No 143., I.No.19.1 of KPWD S.R 2018-19).								
	Rate Analysis								
	Basic Rate in Rs.			130.00					
	Lead for 5 km (2x1.28x5)+57			69.80					
	Add 6% Area Weightage			7.80					
	Total Rate in Rs.			**207.60**					
	Disilting Of Drain								
	Chowdeshwari Layout								
	0-250	rhs	1	250.00	0.50	0.540	67.50		
	New RCC Drain								
	AB Colony								
	0-15	lhs	1	15.00	1.20	0.900	16.20		
	Chowdeshwari Layout								
	0-250	lhs	1	250.00	1.20	0.900	270.00		
	Rcc culvert								
			4	6.00	1.40	1.000	33.60		
							387.30	**207.60**	**80403.48**

Sl. No.	Description of Item	Unit / Rate	Nos	Dimensions			Quantity	Rate in Rs.	Total Amount in Rs
				L in m	B in m	D in m			
3	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregtes @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted,in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2								
		Cum							
	(Page No 13., I.No.4.2 of KPWD S.R 2018-19).								
	Rate Analysis								
	Basic Rate in Rs.			5194.00					
	Add 6% Area Weightage			311.64					
	Total Rate in Rs.			**5505.64**					
	New RCC Drain								
	AB Colony								
	0-15	lhs	1	15.00	1.20	0.15	2.70		
	Chowdeshwari Layout								
	0-250	lhs	1	250.00	1.20	0.15	45.00		
	Rcc culvert								
		0.00	4	6.00	1.40	0.20	6.72		
							54.42	**5505.64**	**299616.93**
4	KSRB 4.9.2 : Providing T .M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 for TMT Bars Fe550								
		Tonne							
	(Page No 17., I.No.4.46.3 of KPWD S.R 2018-19).								
	Rate Analysis								
	Basic Rate in Rs.			71518.00					
	Add 6% Area Weightage			4291.08					
	Total Rate in Rs.			**75809.08**					
	Considering 65 kg of steel per cum of concrete for drain								
			1	95.00		65.00	6.17		
							6.17	**75809.08**	**467742.02**
5	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness , ncluding attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2								
		Sqm							
	(Page No 16., I.No.4.31 of KPWD S.R 2018-19).								
	Rate Analysis								
	Basic Rate in Rs.			358.00					
	Add 6% Area Weightage			21.48					

Sl. No.	Description of Item	Unit / Rate	Nos	Dimensions			Quantity	Rate in Rs.	Total Amount in Rs
				L in m	B in m	D in m			
	Total Rate in Rs.			379.48					
	For Wall								
	AB Colony								
	0-15	lhs	4	15.00		0.600	36.00		
	Chowdeshwari Layout								
	0-250	lhs	4	250.00		0.600	600.00		
	Rcc culvert								
		0	16	6.00		0.600	57.60		
							693.60	**379.48**	**263207.33**
6	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregtes @ 0.459cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., ncluding cost of all materials,labour , HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1, 4.6								
		Cum							
	(Page No 14., I.No.4.11 of KPWD S.R 2018-19).								
	Rate Analysis								
	Basic Rate in Rs.			5659.00					
	Add 6% Area Weightage			339.54					
	Total Rate in Rs.			5998.54					
	For Raft								
	AB Colony								
	0-15	lhs	1	15.00	0.90	0.150	2.03		
	Chowdeshwari Layout								
	0-250	lhs	1	250.00	0.90	0.150	33.75		
	Rcc culvert								
		0	4	6.00	1.20	0.200	5.76		
	For Wall								
	AB Colony								
	0-15	lhs	2	15.00	0.15	0.600	2.70		
	Chowdeshwari Layout								
	0-250	lhs	2	250.00	0.15	0.600	45.00		
	Rcc culvert								
		0	8	6.00	0.20	0.600	5.76		
							95.00	**5998.54**	**569861.30**

Sl. No.	Description of Item	Unit / Rate	Nos	Dimensions			Quantity	Rate in Rs.	Total Amount in Rs
				L in m	B in m	D in m			
7	Providing and laying pre-cast drain cover slab of 100mm thickness in CM1:3 including cost of all materials,labour,curing, transportation, loading, unloading etc.,as per doirections of the Enineer-in-charge. {Data Rate sheet enclosed}								
		Sqm							
	Rate Analysis								
	Basic Rate in Rs.			2337.00					
	For Raft								
	For Wall								
	AB Colony		1	15.00	0.90		13.50		
	Chowdeshwari Layout		1	250.00	0.90		225.00		
							238.50	**2337.00**	**557374.50**
8	Providing and laying Pre Cast Drain Cover slabs of 250mm thickness including cost of all materials, labour, curing, transportation,loading, unloading etc.,complete as per the direction of Engineer - In- Charge. (Data Rate enclosed)								
		Sqm							
	Rate Analysis								
	Basic Rate in Rs.			5418.00					
	Rcc culvert								
			4	6.00	1.50		36.00		
							36.00	**5418.00**	**195048.00**
9	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. 10cm thick								
		Sqm							
	(Page No 27., I.No.5.31.2 of KPWD S.R 2018-19).								
	Basic Rate in Rs.			912.00					
	Add 6% Area Weightage			54.72					
	Total Rate in Rs.			**966.72**					
	Provision for missing and damaged portions ref.Item.1						67.50		
							67.50	**966.72**	**65253.60**
10	KSRB 5-9 : Providing Machine cutting to granite stone slabs edge all four sides to get plain even surface, the work includes the cost of cutting blades, hire charges of cutting machine, Generator and including cost of all labour, materials (Excluding cost of BS slabs) HOM of machineries, with all lead and lift charges, loading and unloading charges etc., complete as per the direction of the Engineer-in-charge of the work								
		m.							
	Date Rate	**73**							
	Provision for missing and damaged portions ref.Item.1								

Sl. No.	Description of Item	Unit / Rate	Nos	Dimensions			Quantity	Rate in Rs.	Total Amount in Rs
				L in m	B in m	D in m			
			125	2x(0.9+0.6)			375.00		
							375.00	73.00	27375.00
11	KSRB 5-9 : Providing chamfering edges to stone slab 2.5 cms. wide as per specifications. (only chamfered length shall be recorded) KBS 5.1.13								
		m.							
	(Page No 26., I.No.5.22 of KPWD S.R 2018-19).								
	Basic Rate in Rs.			58.00					
	Add 6% Area Weightage			3.48					
	Total Rate in Rs.			61.48					
	For Cover Slab								
	Provision for missing and damaged portions ref.Item.1								
			125	2x(0.9+0.6)			375.00		
							375.00	61.48	23055.00
12	KSRB 5-8.1 : Providing one line dressing to granite stone slab / granite stone masonry as per specifications.								
		Sqm							
	(Page No 26., I.No.5.17 of KPWD S.R 2018-19).								
	Basic Rate in Rs.			897.00					
	Add 6% Area Weightage			53.82					
	Total Rate in Rs.			950.82					
	For Cover Slab								
	Provision for missing and damaged portions ref.Item.1						67.50		
							67.50	950.82	64180.35
	ROAD WORKS								
13	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications. MORTH Specification No.301								
		Cum							
	(Page No 143., I.No.19.14 of KPWD S.R 2018-19).								
	Rate Analysis								
	Basic Rate in Rs.			41.00					
	Lead for 5 km (2x1.28x5)+57			69.80					
	Add 6% Area Weightage			2.46					
	Total Rate in Rs.			113.26					
	For Reconstruction of CC Road								
	3rd Cross Road								
	0-85		1	85.00	4.00	0.400	136.00		
	Missing Bit In ward No 02								
	0-230		1	185.00	4.00	0.400	296.00		
							432.00	113.26	48928.32
14	KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3								
		Sqm							

Sl. No.	Description of Item	Unit / Rate	Nos	Dimensions			Quantity	Rate in Rs.	Total Amount in Rs
				L in m	B in m	D in m			
	(Page No 147., I.No.19.64 of KPWD S.R 2018-19).								
	Rate Analysis								
	Basic Rate in Rs.			6.00					
	Add 6% Area Weightage			0.36					
	Total Rate in Rs.			6.36					
	For Reconstruction of CC Road								
	3rd Cross Road								
	0-85		1	85.00	4.00		340.00		
	Missing Bit In ward No 02								
	0-230		1	185.00	4.00		740.00		
							1080.00	**6.36**	**6868.80**
15	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision.								
		Cum							
	(Page No 153., I.No.20.5 of KPWD S.R 2018-19).								
	Rate Analysis								
	Basic Rate in Rs.			1882.00					
	Add 6% Area Weightage			112.92					
	Total Rate in Rs.			**1994.92**					
	For Reconstruction of CC Road								
	3rd Cross Road								
	0-85		1	85.00	4.00	0.150	51.00		
	Missing Bit In ward No 02								
	0-230		1	185.00	4.00	0.150	111.00		
							162.00	**1994.92**	**323177.04**
16	KSRRB M600-1.Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016,aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1,optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. Clause 601of MORTH V Revision and IS 456 Table-5 do- with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver. (Page No,-174, I.No.22.1.2 of KPWD S.R 2018-19)								
		Cum							
	(Page No,-174, I.No.22.1.2 of KPWD S.R 2018-19)								

Sl. No.	Description of Item	Unit / Rate	Nos	Dimensions			Quantity	Rate in Rs.	Total Amount in Rs
				L in m	B in m	D in m			
	Rate Analysis								
	Basic Rate in Rs.			3665.00					
	Add 6% Area Weightage			219.90					
	Total Rate in Rs.			3884.90					
	For Reconstruction of CC Road								
	3rd Cross Road								
	0-85		1	85.00	4.00	0.100	34.00		
	Missing Bit In ward No 02								
	0-230		1	185.00	4.00	0.100	74.00		
							108.00	**3884.90**	**419569.20**
17	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46um,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. -do- with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum.(P.No.176, I.No. 22.6.1 PWD SR 2018-19)								
		Cum							
	(Page No,-176, I.No.22.6.1 of KPWD S.R 2018-19)								
	Rate Analysis								
	Basic Rate in Rs.			4916.00					
	Add 6% Area Weightage			294.96					
	Total Rate in Rs.			**5210.96**					
	for Pavement								
	3rd Cross Road								
	0-85		1	85.00	4.00	0.150	51.00		
	Missing Bit In ward No 02								
	0-230		1	185.00	4.00	0.150	111.00		
							162.00	**5210.96**	**844175.52**
								Total Construction Cost	**4273366.00**
	Add KRIDL Charges 4.0%								**170935.00**
	Add GST Charges 12.0%								**512804.00**
	Add 1.0% Towards PMC / Third Party								**42734.00**

Sl. No.	Description of Item	Unit / Rate	Nos	Dimensions			Quantity	Rate in Rs.	Total Amount in Rs
				L in m	B in m	D in m			
	Miscellaneous, Unforeseen work and Contingency Charges								173.00
								Grand Total	5000000.00

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Certificate:-

1. That the workspot inspected by me and found work is necessary.
2. That the area comes with in the Bruhat Bangalore Mahanagara Palike Limits.
3. That the rates are adopted based on the PWD SR of 2018-19.
4. That the provisions made in the estimate are necessary and quite essential.

Assistant Engineer
Ward No 02
BBMP Bangalore

Assistant Executive Engineer
Yelahanka Sub-Division
BBMP Bangalore

Executive Engineer
Yelahanka Division
BBMP Bangalore

Administrative Approval

Accorded For RSSO:Widening
Head of A/C..P.1878.....
CER NO :AS/18-19/ Dt:30.11.18

TA CE (YNK)

Technical Sanction

Accorded For RSSO:Widening
Head of A/C..P.1878.....
CER NO :AS/18-19/ Dt:30.11.18

TA CE (YNK)

mpovements of roads and Drains In Chowdeshwari layout AD Colony And Sorrounding Area in Ward No 02 Yelahanka Sub Division.